

PCT/KR2004/000705

From the  
INTERNATIONAL PRELIMINARY EXAMINING

## PATENT COOPERATION TREATY

To:  
AJU PATENT & LAW FIRM

12th Floor, PoongJin Building, 823-1 Yeoksam-dong,  
Kangnam-gu Seoul 135-784, Republic of Korea

PCT

NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing  
(day/month/year) 21 JUNE 2005 (21.06.2005)

Applicant's or agent's file reference  
SKP04602/PCT

## IMPORTANT NOTIFICATION

International application No.  
**PCT/KR2004/000705**

International filing date (day/month/year)  
**27 MARCH 2004 (27.03.2004)**

Priority date (day/month/year)  
**28 MARCH 2003 (28.03.2003)**

Applicant

SK TELECOM CO., LTD. et al

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits here with the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

## 4. REMINDER

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the *PCT Applicant's Guide*.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.



Name and mailing address of the IPEA/KR

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PCT/KR2004/000705

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

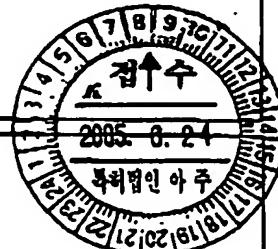
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SKP04602/PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. <b>PCT/KR2004/000705</b>	International filing date (day/month/year) <b>27 MARCH 2004 (27.03.2004)</b>	Priority date (day/month/year) <b>28 MARCH 2003 (28.03.2003)</b>
International Patent Classification (IPC) or national classification and IPC <b>IPC7 H04Q 7/38</b>		
Applicant <b>SK TELECOM CO., LTD. et al</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a.  (sent to the applicant and to the International Bureau) a total of \_\_\_\_\_ sheets, as follows:
    - sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b.  (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
  - Box No. I Basis of the report
  - Box No. II Priority
  - Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - Box No. IV Lack of unity of invention
  - Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - Box No. VI Certain documents cited
  - Box No. VII Certain defects in the international application
  - Box No. VIII Certain observations on the international application

Date of submission of the demand <b>28 OCTOBER 2004 (28.10.2004)</b>	Date of completion of this report <b>16 JUNE 2005 (16.06.2005)</b>
Name and mailing address of the IPEA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer OH, Je Uk Telephone No. 82-42-481-8222



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/KR2004/000705

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:

international search (under Rules 12.3 and 23.1(b))  
 publication of the international application (under Rule 12.4)  
 international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

the international application as originally filed/furnished

the description:  
 pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:  
 pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_ as amended (together with any statement) under Article 19  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:  
 pages \_\_\_\_\_ received by this Authority on \_\_\_\_\_ as originally filed/furnished  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:  
 the description, pages \_\_\_\_\_  
 the claims, Nos. \_\_\_\_\_  
 the drawings, sheets \_\_\_\_\_  
 the sequence listing (specify): \_\_\_\_\_  
 any table(s) related to sequence listing (specify): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  
 the description, pages \_\_\_\_\_  
 the claims, Nos. \_\_\_\_\_  
 the drawings, sheets \_\_\_\_\_  
 the sequence listing (specify): \_\_\_\_\_  
 any table(s) related to sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000705

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-32</u>	YES
	Claims	<u>NONE</u>	NO
Inventive step (IS)	Claims	<u>1-32</u>	YES
	Claims	<u>NONE</u>	NO
Industrial applicability (IA)	Claims	<u>1-32</u>	YES
	Claims	<u>NONE</u>	NO

## 2. Citations and explanations (Rule 70.7)

1. The claimed invention relates to a method of obtaining traffic information using the billing information of a mobile terminal that can obtain a specified number of a mobile terminal from the billing information and track the moving time of a corresponding mobile terminal between the base stations when the mobile terminal attempts a telephone call on a highway, so that information on the road traffic can be obtained in real time.

D1 (JP 1998-307993) discloses a traffic information collection system which can collect the information received by every repeater via a fixed station and acquiring various traffic information on the road where a mobile station is moving based on those collected information.

D2 (KP 2000-0058946) discloses a method of measuring speeds of moving objects through the position tracking operation of a mobile terminal, which comprises the steps of making base stations connected with terminals within a corresponding area to perceive positions of the terminal.

D3 (KP 1999-0050214) discloses a traffic information service method using a prior radio communication network, which provides traffic information to a user at real time and also reduces cost required in constructing an infra to get traffic information.

The claimed inventions meet the criteria set out in PCT Article 33(2)-(3) because the cited documents D1-D3 do not teach nor fairly suggest a method of obtaining traffic information using the billing information of a mobile terminal.

2. Claims 1-32 have industrial applicability under PCT Article 33(4), because the subject matter claimed can be made or used in industry.